

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

| | | | |
|--------------|--------------------------------------|----------------------|-------------------|
| Applicant: | Yoshinori IWAIZONO | Docket No.: | 28569.7436 |
| Patent No.: | 7,502,700 | Serial No.: | 10/708,115 |
| Issue Date:: | March 10, 2009 | Filing Date: | February 10, 2004 |
| Title: | SECONDARY BATTERY CONTROL CIRCUIT | Confirmation No.: | 2114 |

SECOND REQUEST FOR CERTIFICATE OF CORRECTION
UNDER 37 C.F.R. §§ 1.322 AND 1.323

Attn: Certificate of Correction Branch
 Commissioner for Patents
 PO Box 1450
 Alexandria, VA 22313-1450

Dear Commissioner:

On June 17, 2009, Patentee submitted a Request for Certificate of Correction Under 37 C.F.R. §§ 1.322 and 1.323 requesting the correction of the priority information on the front of the issued U.S. Patent No. 7,502,700. A rejection of Patentee's request was issued on August 6, 2009 stating that the declaration claims priority to PCT/JP00/01627 under 35 USC 119(a)-(d) or (g) or 365 (b) (copy enclosed). Patentee respectfully disagrees. As can be seen on the attached copy of the Declaration, while PCT/JP00/01627 is listed under the section for claiming priority under 35 U.S.C. 119(a)-(d) or 365(b), the box is marked that says PRIORITY NOT CLAIMED. On page two of the declaration, however, PCT/JP00/01627 is listed in the box for claiming the benefit under 35 U.S.C. 120 or 365(c) of any PCT international application designating the United States, which this patent does. A copy of the front page of the parent U.S. Patent No. 6,714,882, of which the above-referenced patent is a divisional, correctly showing the priority information is shown is also enclosed for your reference.

The above-referenced patent was a divisional of U.S. Serial No. 09/700,583 filed on January 19, 2001. The 09/700,583 application was a national stage application under 35 U.S.C. §371(c)(1), (2), (4) with a filing date of January 19, 2001 and was based on PCT/JP00/01627

which was filed on March 16, 2000. International Application No. PCT/JP00/01627 claims priority to Japanese Application No. 11-71071 filed on March 16, 1999. International Application No. PCT/JP00/01627 was also published on September 21, 2000 as WO 00/55954. On the face of U.S. Patent No. 7,502,700, the priority document information is incorrectly shown. The correct information is given on the attached Certificate of Correction form PCT/SB44.

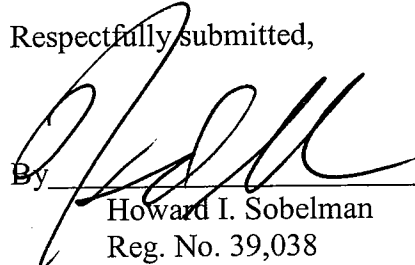
Therefore, pursuant to 37 C.F.R. §§1.322 and 1.323, Patentee hereby requests a Certificate of Correction be issued to correct errors in the listing of the foreign priority information of the issued patent. In accordance with the provisions of 37 C.F.R. §§1.322 and 1.323 of the Rules of Practice, approval of the attached Certificate of Correction for the above-identified patent is requested.

Applicants assert the error was on the part of the U.S. Patent Office and therefore no fee should be due, however, if appropriate under the provisions of C.F.R. §§1.323 and 1.20(a), the Commissioner is hereby authorized to debit the fee in the amount of \$100.00 for the Certificate of Correction to Deposit Account No. 19-2814. If it is found that there is a deficiency or overage in the fee that is due, the Commissioner is hereby authorized to debit or credit Deposit Account No. 19-2814 and is asked to advise the undersigned accordingly.

If there are any questions or unresolved issues, the undersigned would welcome a telephone call to the number shown below.

Respectfully submitted,

Date: 8/12/09

By 
Howard I. Sobelman
Reg. No. 39,038

SNELL & WILMER L.L.P.
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,502,700
APPLICATION NO.: 10/708,115
ISSUE DATE : March 10, 2009
INVENTOR(S) : Yoshinori Iwaizono

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Related US Application Data

(62) Division of application No. 09/700,583, filed on Jan. 19, 2001, now Pat. No. 6,714,882.

(22) PCT Filed: Mar. 16, 2000

(86) PCT No.: PCT/JP00/01627

Sect. 371 (c)(1), (2), (4) date: Jan. 19, 2001

(87) PCT Pub. No.: WO 00/055954

PCT Pub. Date: Sep. 21, 2000

(30) Foreign Application Priority Data

Mar. 16, 1999 (JP) 11-71071

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Howard I Sobelman, Snell & Wilmer L.L.P.
One Arizona Center, 400 E Van Buren Street
Phoenix, AZ 85004-2202

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

August 6, 2009

Howard I. Sobelman
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28569.7436

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AUG 10 2009

SNELL & WILMER

Patent No: 7,502,700 B2
Application No.: 10/708,115
Applicant: Yoshinori Iwaizono
Issued: March 10, 2009
Title: **SECONDARY BATTERY CONTROL CIRCUIT**

Request for Certificate of Correction:

Consideration has been given to your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rules 1.322/1.323.

Per the examiner "present application (10/708,115) is not a U.S. national phase application under 35 USC 371 of PCT International Application No. PCT/JP00/01627. Present application claims foreign priority under 35 USC 119 (a)-(d) or (g) or 365 (b) of PCT/JP00/01627 as indicated in the Oath or Declaration filed 06/29/2005. Therefore, the priority document information on the face of U.S. Patent No. 8,502,700 is deemed correct".

In view of the foregoing, your request in these matters is hereby **denied**.

Future correspondence concerning this matter should be directed to Decisions & Certificates of Correction Branch.

/Virginia Tolbert/
Virginia Tolbert
For Mary Diggs, Supervisor
Decisions and Certificate of Correction
(703) 756-1591

vt

NOTED FOR RECEIPT

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12/97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| | | |
|--|-------------------------------|--------------------|
| DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required) | Attorney Docket Number | 28569.7400 |
| | First Named Inventor | Yoshinori IWAIZONO |
| | COMPLETE IF KNOWN | |
| | Application Number | 09/700,583 |
| | Filing Date | November 16, 2000 |
| | Group Art Unit | |
| | Examiner Name | To be assigned |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SECOND BATTERY CONTROL CIRCUIT

the specification of which (Title of the Invention)

☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **11/16/2000** as United States Application Number or PCT International

Application Number **09/700,583** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above:

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? | |
|-------------------------------------|--------------|----------------------------------|---|--|--|
| | | | | YES | NO |
| PCT/JP00/01627 11-71071 | PCT Japan | 03/16/2000 03/16/1999 | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Number(s) | Filing Date (MM/DD/YYYY) |
|-----------------------|--------------------------|
| | |

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12/97)

Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION ---- Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent Number | Parent Filing Date (MM/DD/YYYY) | Parent Patent Number (if applicable) |
|--|---------------------------------|--------------------------------------|
| PCT/JP00/01627 | 03/16/2000 | |

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transmit all business in the Patent and Trademark Office connected therewith:

☒ Customer Number 20322 → Place Customer Number Bar Code Label here

☐ OR
☐ Registered practitioner(s) name/registration number listed below

| Name | Registration Number | Name | Registration Number |
|------|---------------------|------|---------------------|
| | | | |

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number or Bar Code Label 20322 OR ☒ Correspondence address below

| | | | | | |
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| Country | USA | Telephone | (602) 382-6291 | Fax | (602) 382-6070 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: Yoshinori Iwaizono ☐ A petition has been filed for this unsigned inventor

| | |
|--|------------------------|
| Given Name (first and middle (if any)) | Family Name or Surname |
| Yoshinori | IWAIZONO |

| | | | |
|----------------------|---------------------------|------|-----------|
| Inventor's Signature | <u>Yoshinori Iwaizono</u> | Date | 1/17/2001 |
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|------|---------|-------|--|-----|----------|---------|-------|

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached



US006714882B1

(12) **United States Patent**
Iwaizono

(10) **Patent No.:** **US 6,714,882 B1**
(45) **Date of Patent:** **Mar. 30, 2004**

(54) **SECOND BATTERY CONTROL CIRCUIT**

(75) Inventor: **Yoshinori Iwaizono, Okayama (JP)**

(73) Assignee: **Matsushita Electric Industrial Co., Ltd., Osaka (JP)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/700,583**

(22) PCT Filed: **Mar. 16, 2000**

(86) PCT No.: **PCT/JP00/01627**

§ 371 (c)(1),

(2), (4) Date: **Jan. 19, 2001**

(87) PCT Pub. No.: **WO00/55954**

PCT Pub. Date: **Sep. 21, 2000**

(30) **Foreign Application Priority Data**

Mar. 16, 1999 (JP) 11-71071

(51) **Int. Cl.⁷** **H02J 7/00**

(52) **U.S. Cl.** **702/63; 702/136; 320/150**

(58) **Field of Search** **702/63-65, 57, 702/99, 130, 132, 133, 136, 182, 183, 188, FOR 103, FOR 104, FOR 106, FOR 111, FOR 134, FOR 135, FOR 170; 320/152, 162, 112, 107, 151-154, 137, 134, 128, 130, 150; 429/61, 62, 56, 57, 59, 90, 92; 324/429, 431, 434, 426; 340/455, 449, 636, 657, 660; 374/137, 141, 142, 163, 183; 700/286, 291-293, 295-297, 299**

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OTHER PUBLICATIONS

Translation of JP 9-331638, Dec. 1997.*

* cited by examiner

Primary Examiner—Hal Wachsman

(74) *Attorney, Agent, or Firm*—Snell & Wilmer, LLP

(57)

ABSTRACT

According to the present invention, there is provided a secondary battery control circuit which can perform a reliable charge/discharge control without activating Positive Temperature Coefficient element. The secondary battery control circuit includes a temperature detection section for detecting a temperature of the secondary battery and a system logic for controlling charging/discharging of the secondary battery based on the temperature detected by the temperature detection sections. The system logic interrupts the charging of the secondary battery in a case where the temperature detected by the temperature detection section is out of a predetermined first temperature range, and interrupts the discharging of the secondary battery in a case where the temperature detected by the temperature detection section is out of a predetermined second temperature range.

3 Claims, 6 Drawing Sheets

